

In the claims:

Please amend the claims as follows:

1-79. (Cancelled)

80. (New) A system for ablating tissue with ultrasound comprising the steps of:

an ablating device having a plurality of ablating elements, the plurality of ablating elements each emitting focused ultrasound which is focused ultrasound in at least one dimension; the ablating elements having a focal length of 2-20 mm, the ablating device also having a fluid cavity covered by a membrane, the fluid cavity and membrane forming part of the ablating element with the focused ultrasound being transmitted through the fluid cavity; and

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a control system operably coupled to the ablating device, the control system controlling the plurality of ablating elements, the control system automatically activating each of the plurality of ablating elements at a first frequency for a first plurality of time periods with emission of ultrasound energy at the first frequency being terminated between the plurality of time periods, the control system also automatically activating each of the plurality of ablating elements at a second frequency, different than the first frequency, for a second plurality of time periods with emission of ultrasound energy at the second frequency being terminated between the plurality of time periods.

81. (New) The system of claim 80, wherein:

the ablating device includes a first transducer having a first focal length and a second transducer having a second focal length different than the first focal length.

82. (New) The system of claim 80, wherein:

the ablating device has a body, the first and second transducers being slidably movable along the body.

83. (New) The system of claim 80, further comprising:
means for moving a focus of the focused ultrasound relative to the tissue.

84. (New) The system of claim 80, wherein:
the control system activates the ablating element for the first plurality of time periods before the second plurality of time periods, the first frequency being lower than the second frequency.

85. (New) The system of claim 80, wherein:
the control system deactivates the ablating element for 5-80 seconds between each of the first and second plurality of time periods.

86. (New) The system of claim 80, wherein:
the membrane has holes therein to permit the fluid to leak therethrough.

87. (New) The system of claim 80, wherein:
the fluid in the cavity is used to cool the target tissue, wherein fluid is supplied to the fluid cavity during operation.

88. (New) The system of claim 80, wherein:
the membrane has a convex contact surface.

89. (New) The system of claim 80, wherein:
the control system automatically operates the plurality of ablating elements at a third frequency different from the first and second frequencies.

90. (New) The system of claim 80, wherein:
the control system operates the plurality of ablating elements at the third frequency until a temperature of the tissue reaches a threshold temperature, the control system terminating activation of the ablating element when the threshold temperature is reached.

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91. (New) The system of claim 80, wherein:
the focused ultrasound forms an angle of 30-90 degrees.


